



GBU Silica

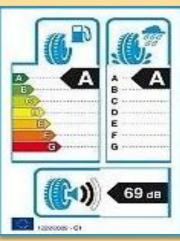
Growth through innovation for sustainable mobility

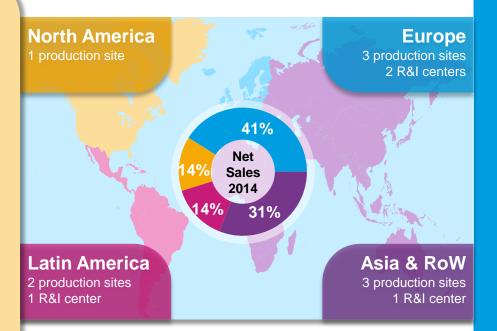
HDS (Highly Dispersible Silica)
for fuel-efficient &
performance tires

















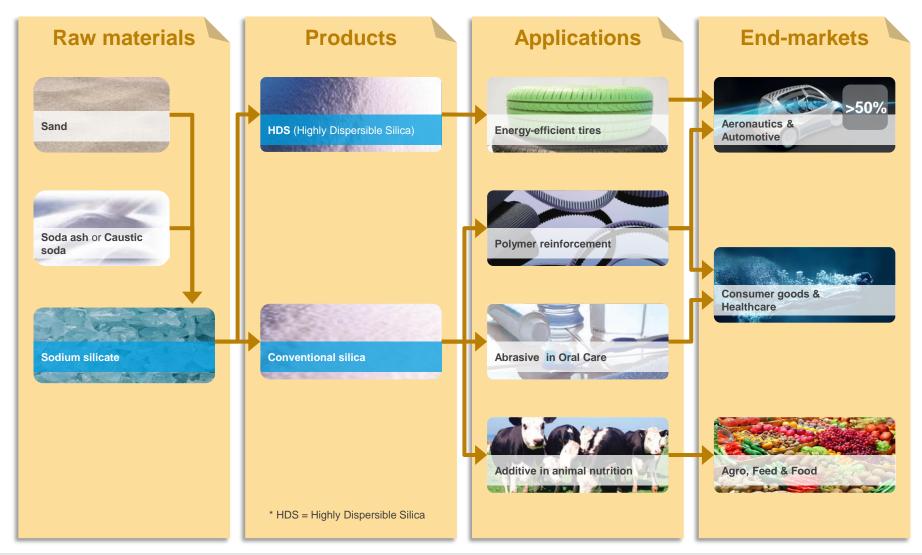
€ 0.5 bnNet sales 2014

~ 700 employees

9 production sites4 R&I centers



Key transformation process





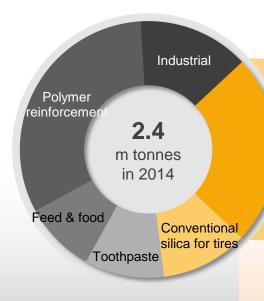
Solvay is a key player in HDS for tires

Amorphous precipitated silica market

CAGR¹⁴⁻²⁰

71 5,5%

HDS = Highly Dispersible Silica (Silice Hautement Dispersible) TCAM = Taux de Croissance Annuel Moyen



Source: Roland Berger, Notch, estimations Solvay Market Size: 2014 data; Split per market: 2013 data HDS for tires0.6 m tonnes in 2014

CAGR¹⁴⁻²⁰

711%

Main producers

- Solvay
- Evonik
- PPG
- · OSC

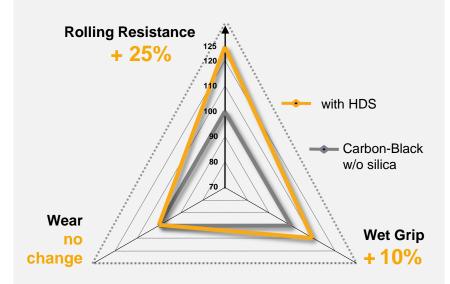
Solvay active in all silica markets

Solvay key player in HDS



HDS delivers value to the tire industry

Excellent technical performance ...



Enables a 5-7% improvement in efficiency

Source: Smithers Rapra, Solvay estimates

... growing across a number of applications

In passenger car and light trucks

- Energy-efficient tires
- Winter tires
- Sport tires

In heavy trucks

 Commercial emergence of tires using a majority of silica instead of carbon black

* HDS = Highly Dispersible Silica

HDS: a significant enabler of performance



Thanks to competitive position & environmental regulation

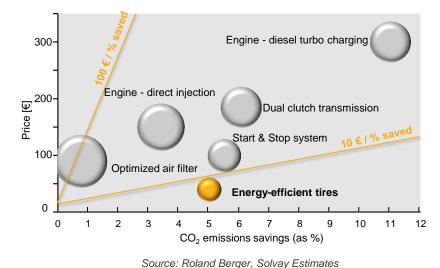
Energy efficiency regulation on auto original equipment

% mandated fleet CO₂ reduction (2010-2020)

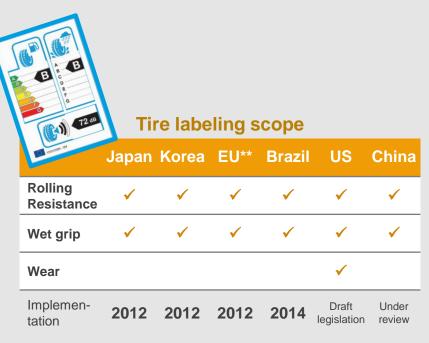
	Japan	Korea	EU	Brazil*	US	China
CO ₂ reduction	-10%	-10%	-33%	-12%	-40%	-37%

^{*} Basis is Innovar Auto program. Threshold of -12% is a 2017 minimum, not 2020

Energy-efficient tires best positioned



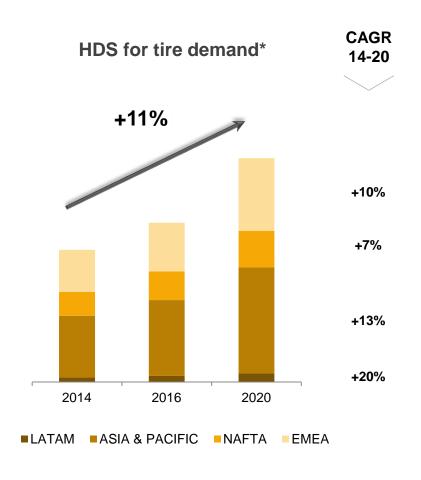
Labeling regulation significantly impacts the tire aftermarket



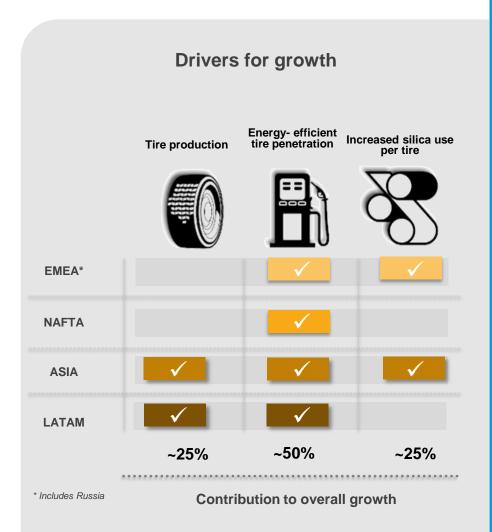
^{**} Australia, New Zealand, Israel also adopting an EU style labeling scheme by 2016



... HDS benefits from solid growth

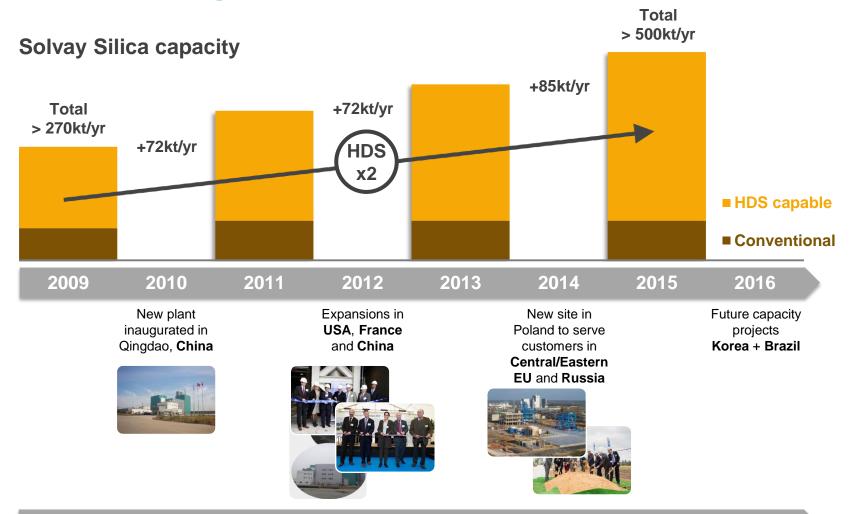


Source: Roland Berger, estimations Solvay For passenger cars and heavy duty





Regular investments to meet market growth opportunities



Continuous process improvement for more efficient production units



Pursued innovation delivers value Allowing to stay ahead of competition



New generation HDS for further fuel savings

- Better rolling resistance
 - Improved label
- Improved wear
 - Lighter or longer life tire
- Better dynamic properties
 - Increase handling for UHP tires





Specifically engineered for performance in winter and Nordic conditions





Increases productivity of HDS tire manufacturing

 Cuts processing gap for tire makers vs. carbon black



- Silica compatible with truck tires
- Enhanced productivity, combined with tire performance gains, leads to a significant adoption potential at our customers.





A successful growth strategy

- Double digit growth in line with the HDS market, driven by energy-efficient tire demand
- Maintain strong market share in HDS for tires through capacity expansion, innovation and excellence

